Global Measurement of Martian Winds, Feasible Approaches and Future Needs / Strategies

Completed Technology Project (2017 - 2018)

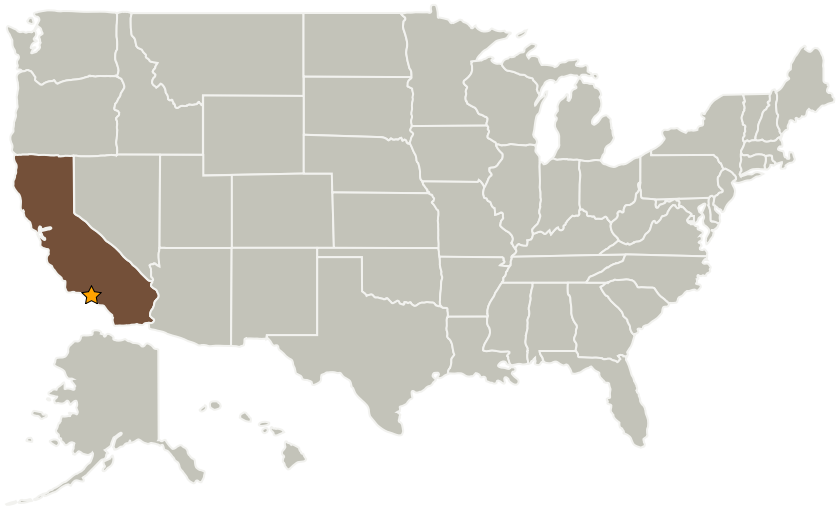
Project Introduction

Assess the merits of submillimeter limb sounder, Lidar, and IR Heterodyne sensors to globally measure Martian winds.

Anticipated Benefits

Martian global wind observation will revolutionize our understanding of Marian water vapor transport and the dynamics of dust storms.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Jet Propulsion Laboratory(JPL)	Lead Organization	NASA Center	Pasadena, California

Primary U.S. Work Locations
California

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Center Innovation Fund: JPL CIF

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Project Management

Program Director:

Michael R Lapointe

Program Manager:

Fred Y Hadaegh

Principal Investigator:

Leslie K Tamppari

Technology Areas

Primary:

- TX14 Thermal Management Systems
  - TX14.2 Thermal Control Components and Systems
    - TX14.2.8 Measurement and Control

Target Destination

Mars